

## ORBITAL SANDER WITH SUCTION RING

## ABSTRACT

A rotary orbital sander includes a motor having a rotatable shaft with a radially off-set portion. A suction housing is mounted to the motor around the motor shaft and connectable with a vacuum source. A sanding pad assembly including a backing pad having a plurality of apertures therethrough and an annular frame having a circumferential side wall including first and second circumferential edges is mounted to the radially off-set portion of the shaft.

10 A circular back wall extends from one of the circumferential edges and has an opening therein sealable with the suction housing. The other circumferential edge is attached to the backing pad. The sanding pad assembly resists flapping at high

15 rotational speeds. A sanding disk having a size and shape complimentary to that of the sanding pad, and a plurality of holes aligning with the apertures in the sanding pad is mountable on the sanding pad. A vacuum source draws sanding waste through the aligned

20 apertures and out the suction housing.